

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P249900

Luminaire Tested: **LSR8B150D010 EC8B150850 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249900
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13954)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150850 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15969.0 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

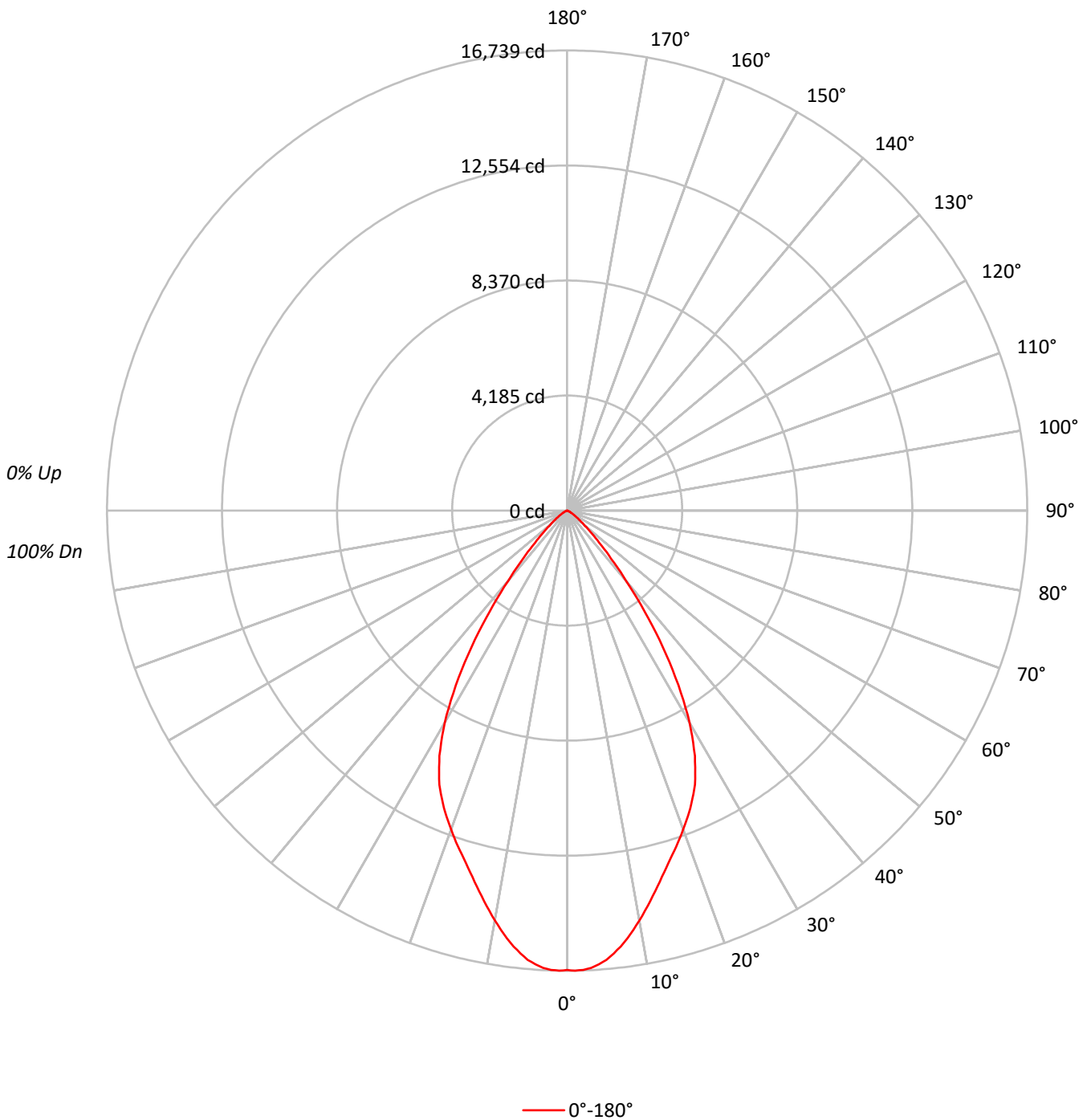
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	88	82	78	94	87	82	77	85	80	76	83	79	76	81	77	75	73
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58
8	77	67	61	57	76	67	61	56	65	60	56	64	60	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	55	52	51
10	70	60	53	49	69	59	53	49	58	53	49	57	53	49	57	52	49	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	515410
5°	507821
10°	473926
15°	435014
20°	405158
25°	374326
30°	317434
35°	228357
40°	134525
45°	71890
50°	37510
55°	21155
60°	11675
65°	6902
70°	3147
75°	1775
80°	888
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1523.8	9.5
10°-20°	3833.9	24.0
20°-30°	4977.1	31.2
30°-40°	3756.7	23.5
40°-50°	1374.6	8.6
50°-60°	384.3	2.4
60°-70°	101.0	0.6
70°-80°	17.0	0.1
80°-90°	0.7	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	10334.8	64.7
0°-40°	14091.5	88.2
0°-60°	15850.3	99.3
0°-90°	15969.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15969.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16714	
5°	16406	###
15°	13626	3834
25°	11002	4977
35°	6066	3757
45°	1648	1375
55°	394	384
65°	95	101
75°	15	17
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	16714.4
1°	16739.3
2°	16719.4
3°	16654.7
4°	16545.1
5°	16405.6
6°	16201.4
7°	15977.3
8°	15718.3
9°	15434.4
10°	15135.6
11°	14836.8
12°	14528.0
13°	14214.2
14°	13915.4
15°	13626.5
16°	13352.6
17°	13088.6
18°	12849.6
19°	12600.6
20°	12346.6
22.5°	11714.0
25°	11001.8
27.5°	10060.5
30°	8915.0
32.5°	7535.4
35°	6066.2
37.5°	4631.8
40°	3341.9
42.5°	2365.7
45°	1648.5
47.5°	1160.4
50°	781.9
52.5°	572.8
55°	393.5
57.5°	283.9
60°	189.3
62.5°	139.5
65°	94.6
67.5°	64.7
70°	34.9
72.5°	24.9
75°	14.9
77.5°	5.0
80°	5.0



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CANDELA DISTRIBUTION (continued):

	0°
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)